

# Biomass as Part of the WGA Clean and Diversified Energy Initiative

Montana Communities and Wildfire Conference
March 1, 2006

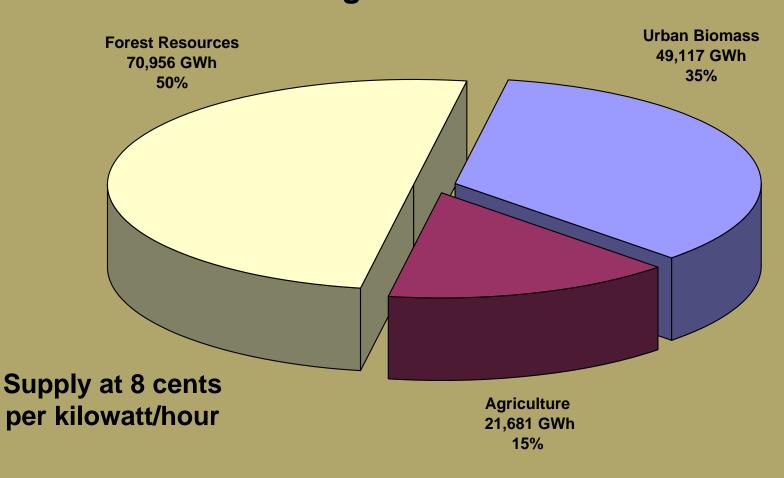
Bill Carlson and John Stewart WGA Biomass Task Force

# Clean and Diversified Energy Initiative

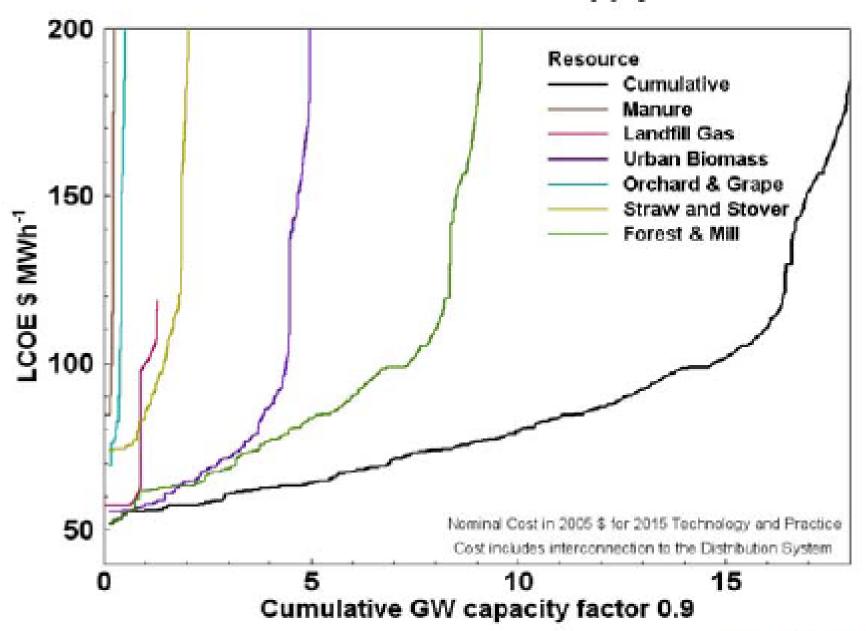
- Western Governors' Goals
  - 1. Add 30,000 megawatts of clean energy by 2015
  - 2. Increase energy efficiency 20% by 2020
  - 3. Providing adequate transmission for the region
- Clean and Diversified Energy Advisory Committee
   (CDEAC) Formed to Provide Recommendations to Attain
   these Goals; <u>Task Forces</u>: Advanced coal, Advanced natural gas,
   Biomass, Energy Efficiency, Geothermal, Solar, Wind, Transmission
   White papers: CHP and Hydropower

# Clean and Diversified Energy Initiative

## Biomass in the WGA Region Available for Power Generation

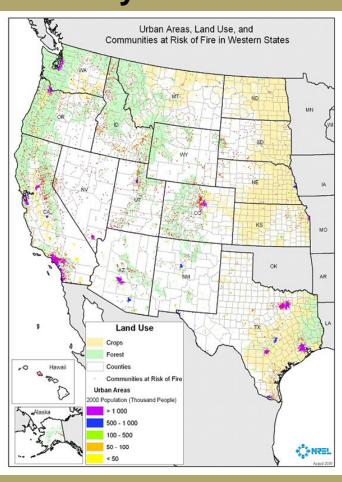


## WGA - Biomass Supply



## Clean and Diversified Energy Initiative

## **Ancillary Benefits of Biomass Energy Production**

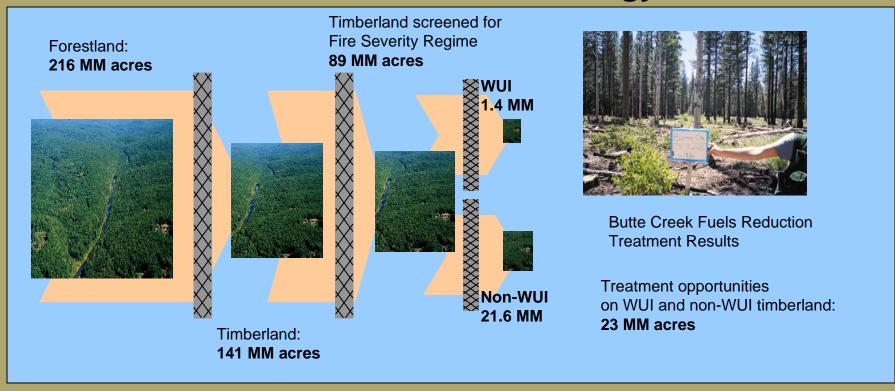


- Synergies of restoration
- Fire Risk Reduction
- Rural Economic Growth And Preservation
- Distributed Resources
- Productive Use of Byproducts rather than disposal
- Clean air and less smoke

# Clean and Diversified Energy Initiative



## **Fire Risk Reduction Strategy**



### Fire Severity Regime Screens:

- 1. Forest type with a surface or mixed severity fire regimes
- 2. For WUI added limited treatment of high severity fire regimes

#### **Final Screens:**

- 1. Plots with higher fire hazard (CI < 25 mph or CI < 40 + TI < 25)
- 2. Inventoried roadless areas excluded
- 3. Counties with wetter climates excluded



# Biomass Opportunities for Montana

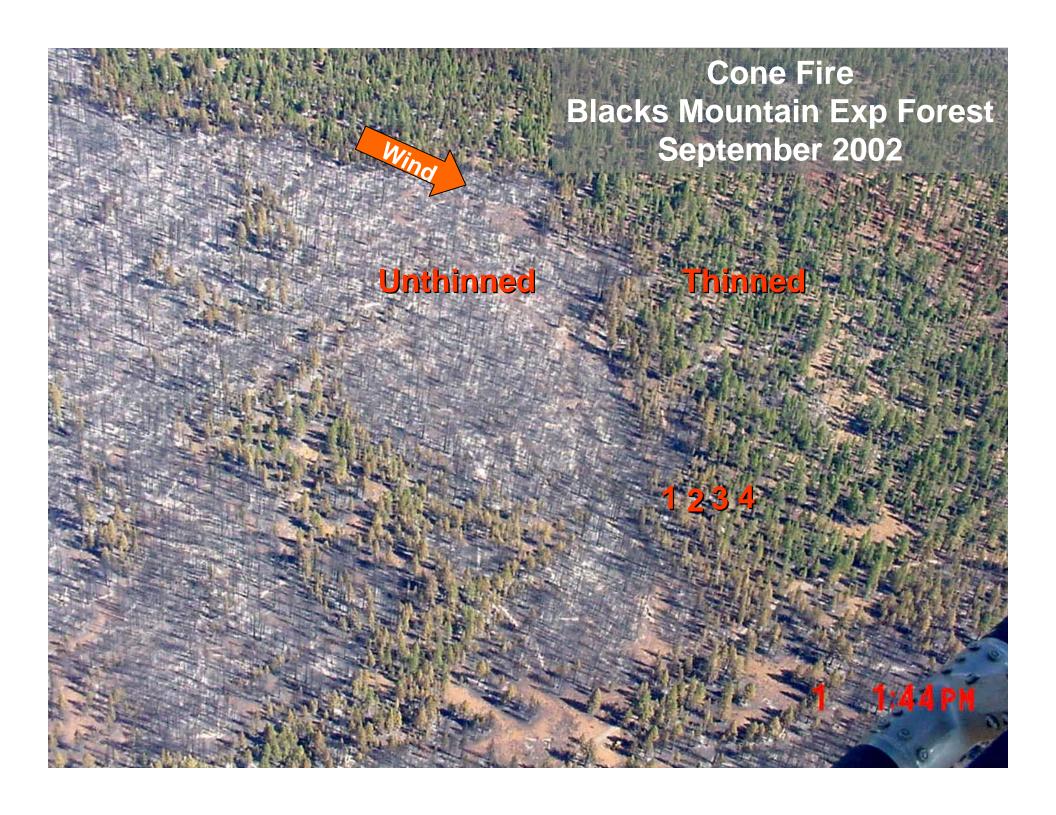
John C. Stewart
Office of Wildland Fire Coordination
Department of Interior
March 1, 2006

## **Forest Health and Wildfire Threats**

Ashurst Valley, Eagle Lake Ranger District, Lassen National Forest















# Thinned to Protect California Spotted Owl



**Before** 

**After** 

# Thinned to Improve Aspen for Wildlife



**Before** 

**After** 

## Thinned to Reduce Hazardous Fuels



**Before** 

**After** 



## **Biomass Success Story Northern California**

- √ 30+ projects totaling over 18,000 acres sold in last 10 years
- Average return of \$146.65 per acre, with range of \$6 to \$648
- Average project size of 630 acres, with range of 73 to 1,671
- Another 10,000 acres were treated through contracts to establish a market
- Averaging 3,000 acres per year

## **Biomass Success Story Northern California**

- The first 15 years of biomass thinning were service contracts to establish a local market
- Consistent, reliable supply of biomass fuels allowed for amortization of private investment
- California has a Renewable Energy Standard which helped establish the biomass industry
- Contracts were not restrictive and their administration was cooperative and not punitive, focusing on the end result
- Small sawlogs (less than 16") were included

## **Key Points**

- Consistent, reliable supply of wood fiber
- Focus on results, not products
- Involve Constituents, including Industry
- Be patient in developing small wood and biomass markets

# Whether you think you, or think you can't, you are right Henry Ford

